

REMARKS

Applicant requests the cancellation of original claims 1-3 and 8 and the entry of new claims 12-27. Support for new claim 12 can be found, *e.g.*, on page 3, lines 5-15. Support for new claim 13 can be found, *e.g.*, on pages 9-10, lines 22-3. Support for new claim 14 can be found, *e.g.*, on page 1, lines 13-22; page 2, lines 1-4; and page 9, lines 1-3. Support for new claims 15 and 16 can be found, *e.g.*, on page 8, lines 14-17. Support for new claims 17 and 18 can be found, *e.g.*, on page 5, lines 16-17. Support for new claim 19 can be found, *e.g.*, on page 3, lines 5-12, and page 8, lines 14-15. Support for new claim 20 can be found, *e.g.*, on pages 9-10, lines 22-3. Support for new claim 21 can be found, *e.g.*, on page 1, lines 13-22; page 2, lines 1-4; page 3, lines 5-15; page 8, lines 14-15; and page 9, lines 1-3. Support for new claims 22 and 23 can be found, *e.g.*, on page 3, lines 5-12, and on page 5, lines 16-17. Support for new claim 24 can be found, *e.g.*, on page 3, lines 5-15, and pages 11-12, lines 20-5. Support for new claim 25 can be found, *e.g.*, on page 1, lines 13-22; page 2, lines 1-4; page 3, lines 5-15; page 9, lines 1-3; and pages 11-12, lines 20-5. Support for new claim 26 can be found, *e.g.*, on page 2, lines 14-25; page 8, lines 22-27; and pages 14-15, lines 27-14. Support for new claim 27 can be found, *e.g.*, on pages 14-15, lines 27-14. Support for new claim 28 can be found, *e.g.*, on page 3, lines 5-15, and on page 5, lines 19-21. Support for new claim 29 can be found, *e.g.*, on page 3, lines 5-15; and on pages 11-12, lines 20-5. Support for new claim 30 can be found, *e.g.*, on page 3, lines 5-15; and on page 5, lines 19-21. No new matter has been added.

Applicants respectfully traverse the restriction requirement, insofar as it restricts between Groups I, II, and IV. Group II is drawn to nucleic acids and computer readable media relating to same, all of which are useful in the methods of Group I (particularly as the claims of Group I are amended herein). Group IV is drawn to a pharmaceutical pack with instructions relating to diagnosis of the presence of at least one of exactly the same group of SNPs. Thus, Groups I, II and IV relate to the same inventive concept: detection of certain defined SNPs. Rejoinder of these groups is respectfully requested.

At pages 3-4 of the action, the Examiner sets forth a requirement for an election of species. Accordingly, Applicants understand that if the elected species, the SNP at position 42723, is found allowable, the Examiner will search additional species. If all species are found

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Serial No. : 09/720,531
Filed : December 19, 2000
Page : 11 of 11

Attorney's Docket No.:
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to be allowable, the genus claims will be allowable. Applicants note that currently all claims of the application read on the elected species.

Applicants also understand that a finding that the elected SNP is allowable will lead to the allowability of any claim specifying a combination of SNPs that includes that elected SNP. Currently, new claims 26-30 specify such combinations.